

SF11 THRU SF16

GLASS PASSIVATED SUPER FAST RECTIFIER

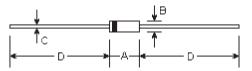
Reverse Voltage - 50 to 600 Volts

Forward Current - 1.0 Ampere

Features

- High reliability
- Low leakage
- Low forward voltage
- High current capability
- Super fast switching speed
- High surge capability
- Good for switching mode circuit
- Glass passivated junction

<u>DO-41</u>



Mechanical Data

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD-202E method 208C guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.012 ounce, 0.335 gram

DIMENSIONS										
DIM	inches		m	Note						
	Min.	Max.	Min.	Max.	Note					
A	0.165	0.205	4.2	5.2						
В	0.079	0.106	2.0	2.7	ф					
С	0.028	0.034	0.71	0.86	ф					
D	1.000	-	25.40	-						

Maximum Ratings and Electrical Characteristics

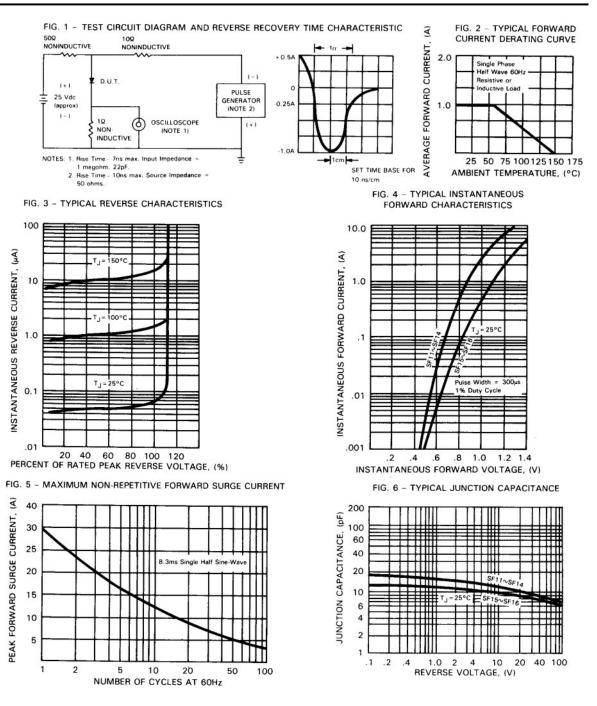
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	SF11	SF12	SF13	SF14	SF15	SF16	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	Volts
Maximum average forward current 0.375" (9.5mm) lead length at $\rm T_{A}\text{=}55^\circ\!C$	I _(AV)	1.0						Amp
Peak forward surge current, I(surge): 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	30.0						Amps
Maximum forward voltage at 1.0A DC	V _F	0.95 1.27 1.75					Volts	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I _R	5.0 50.0						μA
Maximum reverse recovery time (Note 1)	T _{rr}	35.0						nS
Typical junction capacitance (Note 2)	C	15 10					ρF	
Operating and storage temperature range	T _J , T _{stg}	-65 to +150						°C

Notes:

(1) Test conditions: I_F =0.5A, I_R =1.0A, I_{rr} =0.25A

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts



RATINGS AND CHARACTERISTIC CURVES